Geometry Review Quiz 13

Name _____

Put all answers in the blank to the left of the question.

_____1. What is the distance from (1, 2) to (-2, 6)?
A. $\sqrt{17}$ B. $\sqrt{7}$ C. $\sqrt{24}$ D. None of the above

_____2. A line segment has an endpoint at (3, 2). If the midpoint of the line segment is (6, 1), what are the coordinates of the point at the other end of the line segment?
A. (4.5, 1.5) B. (4.5, 2) C. (9, 0) D. (9, 3)

_____3. The contrapositive of "if you have a dog, you like cats" is"if you don't like cats, you love dogs."
A. True B. False

_____4. What equation would be perpendicular to y = ½ x + 5
A. y = -2x + 5 B. y = 2x – 4 C. y = -½ x – 5 D. y = -½x - 5

_____5. If the conditional statement "If you have a laptop, then you have a computer" is represented by $p \rightarrow q$, what is the symbolic representation of "If you have a computer, then you do not have a laptop"?
A. $q \rightarrow \sim p$ B. $\sim q \rightarrow p$ C. $p \rightarrow \sim q$ D. $\sim q \rightarrow \sim p$

_____6. If ΔABC is an isosceles triangle with AB = BC, which statement must be true?
A. $\angle C = \angle B$ B. $\angle A = \angle B$ C. $\angle A = \angle C$ D. AC = BC

_____7. I have a total of 16 kids. If 11 of my kids play soccer and 9 play tennis, how many play both tennis and soccer?
A. 2 B. 4 C. 8 D. 10

_____8. Which of the following cannot be used to prove congruency?
A. SSA B. SSS C. AAS D. SAS

_____9. If $\Delta ABC \cong \Delta XYZ$ with AB = 19, BC = 33, and AC = 31, what is the value of n if YZ = 2n – 9?
A. 5 B. 14 C. 20 D. 21

_____10. Consider ΔABC and ΔXYZ. If AC = 8, $\angle Y = 40°$, YZ = 8, and $\angle C = 40°$, what extra information would make the triangles congruent?
A. $\angle A = \angle X$ C. $\angle A = \angle Z$
B. AB = XZ D. XY = AB